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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,498	01/03/2002	Darrell O. Wagner	279.403US1	5505
21186	7590 03/29/2004		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			MACHUGA, JOSEPH S	
P.O. BOX 2938 MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			3762	4
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Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date \_\_\_\_\_.

6) Other: \_\_\_\_\_.

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## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In Claim 1 the limitation the device includes "circuitry for causing a ventricular pace to be delivered only when a premature atrial contraction is detected" is inaccurate since the device includes circuitry to pace the ventricle when no problem is detected as recited in claim 2.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1,2, 6, 10-12, 15, 16 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roline et al #4363325 in view of Kieval et al #5716383.

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Roline et al disclose a multimode pace maker. The device operates in a VDD 5. mode however if the atria rate drops below 30BPM as detected by a counter the device switches to VVI mode. Not disclosed by this reference are the circuitry that measures the ECG and the circuitry that measures the time interval.

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Kieval et al disclose a pacemaker having circuits that record the ECG and time 6. intervals of the A-A; A-V and V-V parameters to determine the BPM and the like.

Given this disclosure it would have been obvious to one of ordinary skill in the art to use electronic circuits such as that taught by Kieval et al to record the ECG data, calculate the time intervals and determine the BPM's therefore in place of the counter in Roline et al's device to expand it's functionality. With this modification, the limitation that the signal exceeds a specific threshold and the limitation that the device includes circuitry for measuring time intervals would be provided for. Regarding the limitation that the circuit detects a premature atrial contraction. Considering the 30bpm rate would have an A-A interval of X ms in the VVI mode. The A-A interval rates in the VDD mode would be much faster and would appear premature to the circuitry and therefore the limitation would be provided for.

7. Claims 7-9, 13, 14 and 17-19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph S. Machuga whose telephone number is 703-305-6184. The examiner can normally be reached on Monday-Friday; 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D Sykes can be reached on 703-308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Joseph S. Machuga

Examiner Art Unit 3762

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JEFFREY R. JASTRZAB PRIMARY EXAMINER

3/22/04

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